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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/566,098	01/27/2006	Soren Erik Knudsen	P08844US00/DEJ 1918	
881 7590 09/11/2007 STITES & HARBISON PLLC 1199 NORTH FAIRFAX STREET SUITE 900 ALEXANDRIA, VA 22314			EXAMINER	
			KERNS, KEVIN P	
			ART UNIT	PAPER NUMBER
ALEXANDRI	A, VA 22314		1725	
	·		MAIL DATE	DELIVERY MODE
			09/11/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
	10/566,098	KNUDSEN, SOREN ERIK				
Office Action Summary	Examiner	Art Unit				
	Kevin P. Kerns	1725				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address						
Period for Reply	/ IS SET TO EVOIDE 2 MONTH/	S) OD THIDTY (30) DAVS				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE!	I. tely filed the mailing date of this communication. (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 01 Au	ugust 2007.					
2a)⊠ This action is <b>FINAL</b> . 2b)☐ This	This action is <b>FINAL</b> . 2b) This action is non-final.					
·	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1-10</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
<u></u>	6) Claim(s) <u>1-10</u> is/are rejected.					
7) Claim(s) is/are objected to.	u alaatian waxuiranant					
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9)☐ The specification is objected to by the Examine	r.					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
11) Ine oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form P1O-152.				
Priority under 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)⊠ All b)□ Some * c)□ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.						
See the attached detailed Office action for a list	or the certified copies not receive	u.				
Attachment(s)	A) [] Intonious Summerous	(PTO 413)				
Notice of References Cited (PTO-892)  Notice of Draftsperson's Patent Drawing Review (PTO-948)  A) Interview Summary (PTO-413)  Paper No(s)/Mail Date						
Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date 8/1/07.  5) Notice of Informal Patent Application 6) Other:						

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#### DETAILED ACTION

### Claim Rejections - 35 USC § 102/103

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-4 and 7-9 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Buhrer et al. (US 3,601,161).

As to claims 1 and 7, Buhrer et al. disclose a molding sand supply apparatus and method for its use, comprising a sand reservoir (2) for delivering sand, a belt conveyor (4), a flask (9), and means for controlling belt speed (not shown). As to claims 2, 3, and 8, guide plates (6) are operable to distribute sand. As to claims 4 and 9, a funnel (5) is operable to guide falling sand (abstract; column 3, lines 59-75; column 4, lines 1-52; column 5, lines 59-66; and Figures 1-4). With regard to independent claims 1 and 7, Buhrer et al. disclose a means for controlling the belt conveyor speed and a method for its use, which would inherently and/or obviously lead to a speed profile and controlled, varied distribution of sand delivered to and filling the flask relative to the speed of the

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belt conveyor, such that the controlled, varied distribution of sand is advantageous for efficiently filling the flask with sand, in particular at the end of the sand filling process, so that the flask would not become overfilled (leading to overflow and wasteful spillage) with sand, as one of ordinary skill in the art would have readily recognized.

## Claim Rejections - 35 USC § 103

4. Claims 5, 6, and 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Buhrer et al. (US 3,601,161) in view of JP 60-191635.

Buhrer et al. disclose and/or suggest the claimed invention above, but lack the mentioning of detecting the weight with sensors.

However, JP '635 discloses weight sensors to monitor the weight ratio (abstract; and Figures 4, 7, and 8).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the applicant's invention was made to have weight sensors taught by JP '635, in Buhrer et al., in order to monitor the weight of the sand (JP '635; abstract).

# Response to Arguments

5. The examiner acknowledges the applicant's amendment and Information
Disclosure Statement (IDS) received by the USPTO on August 1, 2007. The IDS has
been considered and initialed, and a copy of the IDS is provided with this Office Action.
Claims 1-10 remain under consideration in the application.

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6. Applicant's arguments filed August 1, 2007 have been fully considered but they are not persuasive.

With regard to the applicant's remarks/arguments on pages 1-3 (Attachment A) of the amendment, the applicant is referred to the newly underlined portions in above section 3, as Buhrer et al. provide the apparatus and method substantially as claimed in amended independent claims 1 and 7, inclusive of the "varied" (or "variable") distribution of sand, which is clearly controllable by Buhrer et al. In other words, the addition of "varied" does not further limit "controlled", as "controlled" implies a "variable" process.

#### **Conclusion**

7. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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8. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Dr. Kevin P. Kerns whose telephone number is (571)

272-1178. The examiner can normally be reached on Monday-Friday from 8:00am-

5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Jonathan Johnson can be reached on (571) 272-1177. The fax phone

number for the organization where this application or proceeding is assigned is 571-

273-8300.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

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Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a

USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Kevin P. Kerns Kum 4/8/07 Primary Examiner

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September 8, 2007